

SEQUENCE LISTING

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 COLE, PHILIP A
 FRIEDMAN, JEFFREY M.
 SONDHI, DOLAN
 SEVERINOV, KONSTANTINE

<120> METHODS OF LIGATING EXPRESSED PROTEINS

<130> 600-1-214CIPB

<140> 09/191,890

<141> 1998-11-13

<150> 60/065,391

<151> 1997-11-13

<150> 60/093,990

<151> 1998-07-24

<160> 11

<170> PatentIn Ver. 2.0

<210> 1

<211> 162

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: generated by
 ligation of two proteins under certain conditions

<400> 1

Met Leu Phe Val Ala Leu Tyr Asp Phe Val Ala Ser Gly Asp Asn Thr
 1 5 10 15

Leu Ser Ile Thr Lys Gly Glu Lys Leu Arg Val Leu Gly Tyr Asn His
 20 25 30

Asn Gly Glu Trp Ala Glu Ala Gln Thr Lys Asn Gly Gln Gly Trp Val
 35 40 45

Pro Ser Asn Tyr Ile Thr Pro Val Gly Cys Leu Glu Lys His Ser Trp
 50 55 60

Tyr His Gly Pro Val Ser Arg Asn Ala Ala Glu Tyr Leu Leu Ser Ser

65	70	75	80
Gly Ile Asn Gly Ser Phe Leu Val Arg Glu Ser Glu Ser Ser Pro Gly			
85	90	95	
Gln Arg Ser Ile Ser Leu Arg Tyr Glu Gly Arg Val Tyr His Tyr Arg			
100	105	110	
Ile Asn Thr Ala Ser Asp Gly Lys Leu Tyr Val Ser Ser Glu Ser Arg			
115	120	125	
Phe Asn Thr Leu Ala Glu Leu Val His His His Ser Thr Val Ala Asp			
130	135	140	
Gly Leu Ile Thr Thr Leu His Tyr Pro Ala Pro Lys Arg Gly Ile His			
145	150	155	160
Arg Asp			

<210> 2
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Model peptide synthesized by solid phase peptide synthesis.

<220>
 <221> SITE
 <222> (11)
 <223> Xaa(position 11) is aminocaproate.

<220>
 <223> C-terminal K has a fluorescein moiety off the E-NH2 group.

<400> 2
 Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys
 1 5 10

<210> 3
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Model peptide
synthesized by solid phase peptide synthesis.

<220>
<221> SITE
<222> (11)
<223> Xaa(position 11) is aminocaproate.

<400> 3
Cys Glu Asp Asn Glu Tyr Thr Ala Arg Glu Xaa Lys
1 5 10

<210> 4
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Model peptide
synthesized by solid phase peptide synthesis.

<220>
<223> K has a fluorescein moiety off the E-NH2 group; C-
terminus is an amide group.

<400> 4
Cys Gly Arg Gly Arg Gly Arg Lys
1 5

<210> 5
<211> 8
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: ligand

<400> 5
Pro Val Pro Tyr Glu Asn Val Gly
1 5

<210> 6
<211> 11

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Model peptide
synthesized by solid phase peptide synthesis.

<220>

<223> C-terminus is an amide group.

<400> 6

Pro Pro Ala Tyr Pro Pro Pro Pro Val Pro Lys
1 5 10

<210> 7

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 7

ccggatcatcg aaggtcgttg cctggagaaa cattcctggt at

42

<210> 8

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 8

catgatacca ggaatgtttc tccaggcaac gaccttcgat g

41

<210> 9

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: motif within
linker region

<400> 9

Ile Glu Gly Arg Cys

1

5

<210> 10

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 10

ggatcccctg gtcatatgct ttttgtggca ctctatgatt ttgtg

45

<210> 11

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
oligonucleotide

<400> 11

atgtttctcc aggctgttaa cgggggtgat gtagttgctt gg

42